1. Dynamic Characterization of Satellite Components through Non-Invasive Methods

Mentor: David Mascarenas <dmascarenas@lanl.gov> and Gyuhae Park <gpark@lanl.gov>

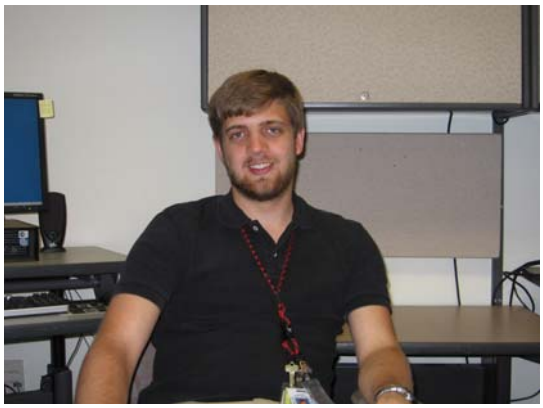
David Macknelly

David Macknelly is a guest student from England, who graduated with a Masters in Mechanical Engineering from Imperial College London in 2009. Since graduating, he has been working in industry in the field of finite element analysis and modal testing. His final year project at university involved creating a simulation of a control system for a multi-axis electro-dynamic shaker system using Matlab and Simulink. In his spare time he plays Cricket and enjoys walking and photography.

Heather Wiest

Heather Wiest is currently a senior at Rose-Hulman Institute of Technology from Arlington Heights, IL. She is pursuing a dual degree in Mechanical Engineering and Economics with a minor in German. At Rose, Heather is treasurer of the Society of Women Engineers, a tutor in the Learning Center, and a member of the varsity swim team, lacrosse club, water polo club, and pep band, as well as a member of the honor fraternities Tau Beta Pi, Pi Mu Epsilon, and Alpha Lambda Delta. Some of Heather's interests include snowmobiling, swimming, and baseball.

Josh Mullins



Josh Mullins graduated this May with a B.E. in Civil Engineering from Vanderbilt University. He plans to continue his education at Vanderbilt next fall in pursuit of a PhD in Structural Engineering. During that time, he will be focusing on Structural Health Monitoring as part of Vanderbilt's risk and reliability program. Previous research in this area includes applying a bond graph methodology to modeling of plate structures. While at Vanderbilt, Josh has been an active participant in the university chapter of the American Society of Civil Engineers (ASCE) and participated in several competitions at various ASCE conferences. He is also an avid sports fan and particularly enjoys bowling and tennis as well as many other outdoor activities.